No.



9800050

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Minnesota Agricultural Experiment Station

THE THE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN UCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY SCTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (I) SHALL BE SOLD BY VARIETY NAME ONLY AS A CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE SALETAT, 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'UM-3'

In Vestimonn Mexent, I have hereunto set my hand and caused the seal of the Hant Anxiety Arctection Office to be affixed at the City of Washington, D.C. this thirty-first day of Warch, in the year of our Lord two thousand.

In marie

Commissioner
Plant Variety Protection Office

yy of Agricultu

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROT	all reproductions.		FORM APPROVED - OMB NO. 0581-0		
	ECTION OFFICE				
APPLICATION FOR PLANT VARIETY PROTECTIO					
(Instructions and information collection burden states. NAME OF APPLICANT(S) (as it is to appear on the Certificate)	nent on reverse)				
	tation	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME		
Minnesota Agricultural Experiment Station University of Minnesota			Namecha		
contrets by of intimesoca		M91-455			
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Col 220 Coffey Hall	mtry)	6. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY		
1420 Eckles Avenue		(612) 625-4211	PVPO NUMBER		
St. Paul, MN 55108	And the second second	6. FAX (include area code)	F IDATE 300050		
•		o. The (mediate area ebae)	I DATE		
	•	(612) 625-0286	12/88/97		
GENUS AND SPECIES NAME	8. FAMILY NAME (Botan		FIUNG AND EXAMINATION FEE:		
Glycine max	Legumino	sae	£ 2450.00		
CROP KIND NAME (Common name)			5 DATE 2129/97		
Soybean			R E CERTIFICATION FEE:		
IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZA University	ATION (corporation, partnersh	ip, association, etc.) (Common name)	F. 300		
. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	E DATE		
			0115-99		
NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SEE	AVE IN THIS APPLICATION	AND BECEIVE ALL DADEDS	14. TELEPHONE (include area code)		
1991 Upper Buford Circle St. Paul, MN 55108	en e		(612) 625-1268		
CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow I	instructions on reverse)				
b. 🕍 Exhibit B. Statement of Distinctness	A STATE OF S		ere and the second		
c. 🖾 Exhibit C. Objective Description of the Variety			the part of the second		
d. SExhibit D. Additional Description of the Variety (Optional)	•				
e. Kathibit E. Statement of the Basis of the Applicant's Ownership		AMATERICAN STORMS AND			
1. Voucher Sample (2,500 viable untreated seeds or, for tuber propagate	d varieties verification that ti:	ssue culture will be deposited and maintaine	d in an approved public repository)		
g. [A] Filing and Examination Fee (\$2,450), made payable to "Treasurer of the		* · · ·	•		
DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY YES III "yes," answer items 18 and 19 below)	VARIETY NAME ONLY, AS A		n 83(a) of the Plant Variety Protection Act		
DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED.	AS TO NUMBER OF 19.	IF "YES" TO ITEM 18, WHICH CLASSES	OF PRODUCTION BEYOND BREEDER SEED?		
GENERATIONS?		-44			
☑ YES □ NO		[X] FOUNDATION [X] REGISTERE	= ·=·		
MAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN REL	EASED, USED, OFFERED FOR	· · · · · · · · · · · · · · · · · · ·			
MAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN REL		· · · · · · · · · · · · · · · · · · ·	= ·=·		
HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN REL YES III "yes," give names of countries and dates) The applicant(s) declare that a viable sample of basic seed of the variety will be	NO	R SALE, OR MARKETED IN THE U.S. OR O	THER COUNTRIES?		
HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN REL YES III "yes," give names of countries and dates) The applicant(s) declare that a viable sample of basic seed of the variety will be applicable, or for a tuber propagated variety a tissue culture will be deposited in	I furnished with application an	R SALE, OR MARKETED IN THE U.S. OR O will be replenished upon request in accontained for the duration of the certificate.	THER COUNTRIES?		
HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN REL YES Ill "yes," give names of countries and detes) The applicant(s) declare that a viable sample of basic seed of the variety will be applicable, or for a tuber propagated variety a tissue culture will be deposited in the undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or Section 4.2, and is entitled to protection under the provisions of Section 4.2 of the	NO I furnished with application and a public repository and main tuber propagated plant variety are Plant Variety Protection Act	R SALE, OR MARKETED IN THE U.S. OR O d will be replenished upon request in accontained for the duration of the certificate.	THER COUNTRIES?		
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Exhibit A

Origin and Breeding History of UM-3 Soybean

'UM-3' soybean traces to the F₅ progeny of an F₄ plant harvested from a population that had been advanced by a modified single seed descent procedure from the cross Natto x M87-926. The line M87-926 has the pedigree Chico x PI 437296. Bulked seed of the F₅ row was designated UM-3 and was used for yield testing the use of F₆ (1993). Subsequent tests of strain in UM-3 were conducted in North Dakota and Minnesota in the F₇ (1994) and F₈ (1995). In the F₈ generation 50 typical plants were harvested individually to initiate purification for observable traits including seed size. In the F₉ (1996) UM-3 was entered in the maturity group 0 Regional Soybean Test. In 1996 twenty-five rows were bulked to provide breeder's seed. In 1996 a small increase of breeder's seed was produced. In 1997 Foundation seed was being produced by the Minnesota Foundation Seed Organization. A proposal was made by Blue Horizon Company to be the exclusive marketer of UM-3 and it was accepted on August 1, 1997. No variants were noted in the seed multiplication process of UM-3 over three generations. This variety is uniform and stable and meets certification standards.

Exhibit B

Statement of Distinctiveness

M-3 soybean is most similar to Minnatto.

M-3 has brown (tawny) pubescence while Minnatto has gray pubescence. M-3 has tan pod color while Minnatto has brown pod color. Seed of M-3 and Minnatto are both yellow with yellow hila.

Exhibit B

Statement of Distinctiveness

M-3 soybean is most similar to Minnatto. M-3 is approximately 9 days earlier in maturity than Minnatto. The yield of M-3 is about 16 greater than Minnatto. M-3 lodges slightly more than Minnatto, is about 5 inches shorter and has better seed quality. Seed of M-3 is about 1.8 grams per 100 seeds (about 20%) smaller in size than Minnatto. M-3 has about 3% less protein and 1.4% greater oil than Minnatto. M-3 and Minnatto both have white flowers. M-3 has brown (tawny) pubescence while Minnatto has gray pubescence. M-3 has tan pod color while Minnatto has brown pod color. Seed of M-3 and Minnatto are both yellow with yellow hila.

Data comparing M-3 and Minnatto taken from Minnesota Tests 1995-96.

Variety	Date mature	Yield bu/a	Height inches	Lodging score	Seed quality score	Seed size g/100	Protein %	Oil %
M-3	9/17	41.9	32	2.0	1.5	7.7	33.6	18.1
Minnatto	9/26	36.0	37	1.6	2.1	9.5	36.6	16.7

Page 1 of 4

AGRICULTURAL MARKETING SERVICE

PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S) Minnocota Agricultural F	ARY DESIGNATION	VARIETY NAME	
Minnesota Agricultural Experiment Station University of Minnesota	MO1 AFF	m-3	
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code)	M91-455	M3	
220 Coffey Hall		FOR OFFICIAL USE	ONLY
1420 Eckles Avenue		PVPO NUMBER	
St. Paul, MN 55108	4	9800050	A
Choose the appropriate response which characterizes the variety in the	e features described	below When the t	
in your answer is rewer than the number of poxes provided, place a ze	to in the first hav w	hen number is 0 as less to a	
Starred characters * are considered fundamental to an adequate soybe when information is available.	an variety description	on. Other characters should b	e described
1. SEED SHAPE:		···	· .
) 		
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)	 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1	- 21
2 m Flores 14 Fm - 1 - 1 - 2 - 2 - 2 - 2 - 2	* Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)	.2)
2. SEED COAT COLOR: (Mature Seed)		<u> </u>	
[mains seed]	•		
1 = Yellow 2 = Green 3 = Brown 4 = Black	5 = Other (.	Specify)	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		.· -	
3. SCED COAT EUSTER: (Mature Hand Shelled Seed)			
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy'; 'Gasoy 1	7')		
4. SEED SIZE: (Mature Seed)	· · · · · · · · · · · · · · · · · · ·		
0 8 Grams per 100 seeds	•		
Y 5 HILLIM COLOR: MA		<u></u>	
(5. HILUM COLOR: (Mature Seed)			
2 1 = Buff 2 = Yellow 3 = Brown 4 = Gray	5 = Imperfect Black	c 6 = Black 7 = Othe	er (Specify)
6. COTYLEDON COLOR: (Mature Seed)			
1 1 = Yellow 2 = Green			
7. SEED PROTEIN PEROXIDASE ACTIVITY:			· · · · · · · · · · · · · · · · · · ·
TO THE PEROXIDASE ACTIVITY:			
1 1 = Low 2 = High			
8. SEED PROTEIN ELECTROPHORETIC BAND:	·· <u>·</u>		
2 1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)	•		
9. HYPOCOTYL COLOR:			
1 = Green only ('Evans'; 'Davis') 2 = Green with bronze band 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampt		odworth'; 'Tracy')	
0. LEAFLET SHAPE:			
3 1=1aprestate 2=0.1	Other (Specify)		

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

11. LÉAFLET SIZE:				``.
1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium ('Corsoy 79'; 'Gasoy 17')	980005	0
12. LEAF COLOR:	<u> </u>			
2 1 = Light Green ('Weber': 'York') 3 = Dark Green ('Gnome': 'Tracy')	2 = Medium Green ('Corsoy 79'; 'Bra	xton')		
★ 13. FLOWER COLOR:			· · · · · · · · · · · · · · · · · · ·	
1 t = White 2 = Purple	3 = White with purple throat			
★ 14. POD COLOR:	•	·· .		· · · · · · · · · · · · · · · · · · ·
1 1 = Tan 2 = Brown -	3 = Black			
★ 15. PLANT PUBESCENCE COLOR:				
2 1 = Gray 2 = Brown (Tawny)	•			
16. PLANT TYPES:			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
1 = Slender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intermediate ('Amcor'; 'Braxton')	•••		
★ 17. PLANT HABIT:				·
1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved Peli	2 = Semi-Determinate ('Will') ican')			
★ 18. MATURITY GROUP:		·	······································	
0 3 1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII	4 = 1 5 = II 6 = III 12 = IX 13 = X	7 = IV	8 = V	
★ 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Se	terentible 2 - Parisana		 	
BACTERIAL DISEASES:				
+ []				
Bacterial Pustule (Xanthomonas phaseoli var.	sojensis)			
★ 0 Bacterial Blight (Pseudomonas glycinea)			v 44	
★ 0 Wildfire (Pseudomonas (abaci)		V	•	
FUNGAL DISEASES:				
★ 0 Brown Spot (Septoria glycines)				
Frogeye Leaf Spot (Cercospora sojina)			i i	
★ 0 Race 1 Race 2 Race O Target Spot (Corynespora cassiicola)	3 Race 4 Race 5	Oth	er (Specify)	
Downy Mildew (Peronospora trifoliorum var.)	manshurica)	•	÷	•
Powdery Mildew (Microsphaera diffusa)				
* 1 Brown Stem Rot (Cephalosporium gregatum)				
O Stem Canker (Diaporthe phaseolorum var. caul.	ivora)			

13. DISEASE REAC	TION: (Enter 0 = Not Tested; 1 = Susceptib	le; 2 = Resistant) (Continued)	
	EASES: (Continued)	(sommaeu)	
→ 10 1	1 Stem Blight <i>(Diaporthe phaseolorum</i> var; soj	inal	G 04 7/2 C A
ا م ا	Seed Stain (Cercospora kikuchii)		9802050
0 Rhizocti	onia Root Rot (Rhizoctonia solani)	٠.	
Phytoph	thora Rot (Phytophthora megasperma var. so	iael	
★ 1 Race 1	Race 2 Race 3		ace 5 Race 6 Race 7
Race 8	Race 9 Other (Special	(y)	
VIRAL DISEAS	SES:	2	
0 Bud Bligh	nt (Tobacco Ringspot Virus)	•	
	losaic (Bean Yellow Mosaic V i rus)		•
* 0 Cowpea A	Mosaic (Cowpea Chlorotic Virus)		
Pod Motti	le (Bean Pod Mottle Virus)		
. []	tle (Soybean Mosaic Virus)		
NEMATODE DIS			
	Syst Nematode (Heterodera glycines)		•
★ 1 Race 1			2-4
	Race 2 Race 3	Race 4 Othe	er (Specify)
. —	natode (Hoplolaimus Colombus)		
★ O Southern F	Root Knot Nematode (Meloidogyne incognita)	•	
★ 0 Northern R	loot Knot Nematode (Meloidogyne Hapla)	·	
0 Peanut Roo	ot Knot Nematode (Meloidogyne arenaria)	•	
0 Reniform N	lematode (Rotylenchulus reniformis)		
	SEASE NOT ON FORM (Specify):	•	•
20. PHYSIOLOGICAL R	ESPONSES: (Enter 0 = Not Tested; 1 = Susc	eptible; 2 = Resistant)	
	sis on Calcareous Soil		
Other (Speci	fy)		
1. INSECT REACTION:	(Enter 0 = Not Tested; 1 = Susceptible; 2 =		
101	n Beetle (Epilachna varivestis)	Resistant)	
101			
	Hopper (Empoasca fabae)		
	y)		
2. INDICATE WHICH VA	ARIETY MOST CLOSELY RESEMBLES TH	AT SUBMITTED.	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF THE OF
Plant Shape	Minnatto	Seed Coat Luster	NAME OF VARIETY Lambert
Leaf Shape	Minnatto	Seed Size	
Leaf Color	Minnatto	Seed Shape	Minnatto
Leaf Size	Minnatto	Seedling Pigmentation	Minnatto
		- 7.13 - Guidation	Minnatto
RM LMGS-470-57 (6-83)		<u> </u>	

VARIETY	NO. OF DAYS	LODGING	CM PLANT HEIGHT	LEAFLET SIZE		1996 SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
MATUF	MATURITY			CM Width	CM Length	% Protein	% Oil	SEEDS	POD
M-3 Submitted	113	1.9	61	6.8	11.0	43.6	19.9	7.8	2.3
Agassiz Name of Similar Variety	113	1.4	76	7.6	11.9	43.5	20.5	14.4	2.4

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

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REPRODUCE LOCALLY. Include form number and date on all reproductions. U.S. DEPARTMENT OF AGRICULTURE	The following statements on made in the following statements on made in the following statements on made in the following statements on the following statements of the following statements on the following statements of the fo				
AGRICULTURAL MARKETING SERVICE	10 0.0.0. Do 20, die Paperwork Reduction Act (PRA				
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to certificate is to be issued (7 U.S.C. until certificate is issued (7 U.S.C.	o determine if a plant variety protecti 2. 2421). Information is held confident 2426).			
1. NAME OF APPUCANTIS, Minnesota Agricultural Experiment Station University of Minnesota	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME			
	M91-455	M-3			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 220 Coffey Hall 1420 Eckles Avenue	5. TELEPHONE linclude area code! 612-625-4211	6. FAX (include area code) 612-625-0286			
St. Paul, MN 55108	7. PVPO NUMBER 9800050				
8. Does the applicant own all rights to the union 2 44.4	700	0000			
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, please explain.	XX YES NO			
	•				
9. Is the applicant (individual or company) a U.S. national or U.S. based, company					
If no, give name of country	y?	XX YES NO			
b. If original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were owned by a company, is the original rights to variety were rights to variety were rights to variety were rights to variety were rights.		ny?			
to the emptoyer of the	s breeder who deverope	:u m-3.			
		·			
LEASE NOTE:					
ant variety protection can be afforded only to owners (not licensees) who meet o	ne of the following criteria:				
If the rights to the variety are owned by the original breeder, that person must of a country which affords similar protection to nationals of the U.S. for the sar	be a U.S. national, national of a Ul ne genus and species.	POV member country, or national			
If the rights to the variety are owned by the company which employed the originationals of a UPOV member country, or owned by nationals of a country which genus and species.	nal breeder(s), the company must h affords similar protection to natio	be U.S. based, owned by onals of the U.S. for the same			
If the applicant is an owner who is not the original owner, both the original own	er and the applicant must meet on	e of the above criteria.			
e original breeder/owner may be the individual or company who directed final bre r definition.		i i			
scording to the Paperwork Reduction Act of 1995, no persons are required to re introl number. The valid OMB control number for this information collection llection is estimated to average 10 minutes per response, including the time for d maintaining the data needed, and completing and reviewing the collection of inc	is 0581-0055. The time require	on unless it displays a valid OMB and to complete this information existing data sources, gathering			

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To file a complaint, write the Secretary of Agriculture, U.S. December of